

FIG. 1

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graph TD
    200[Host device transmits a certificate to a service provider] --> 202{Is the host device authenticated}
    202 -- No --> 204[End]
    202 -- Yes --> 206[Host device transmits a request message for information]
    B[B] --> 206
    206 --> 208[POD module prepares the selected information from the service provider]
    208 --> 210[POD module transmits a reply message that includes a control information pair to the host device]
    210 --> 212[POD module and host device respectively calculate shared keys]
    212 --> A[To A]

```

FIG. 2a

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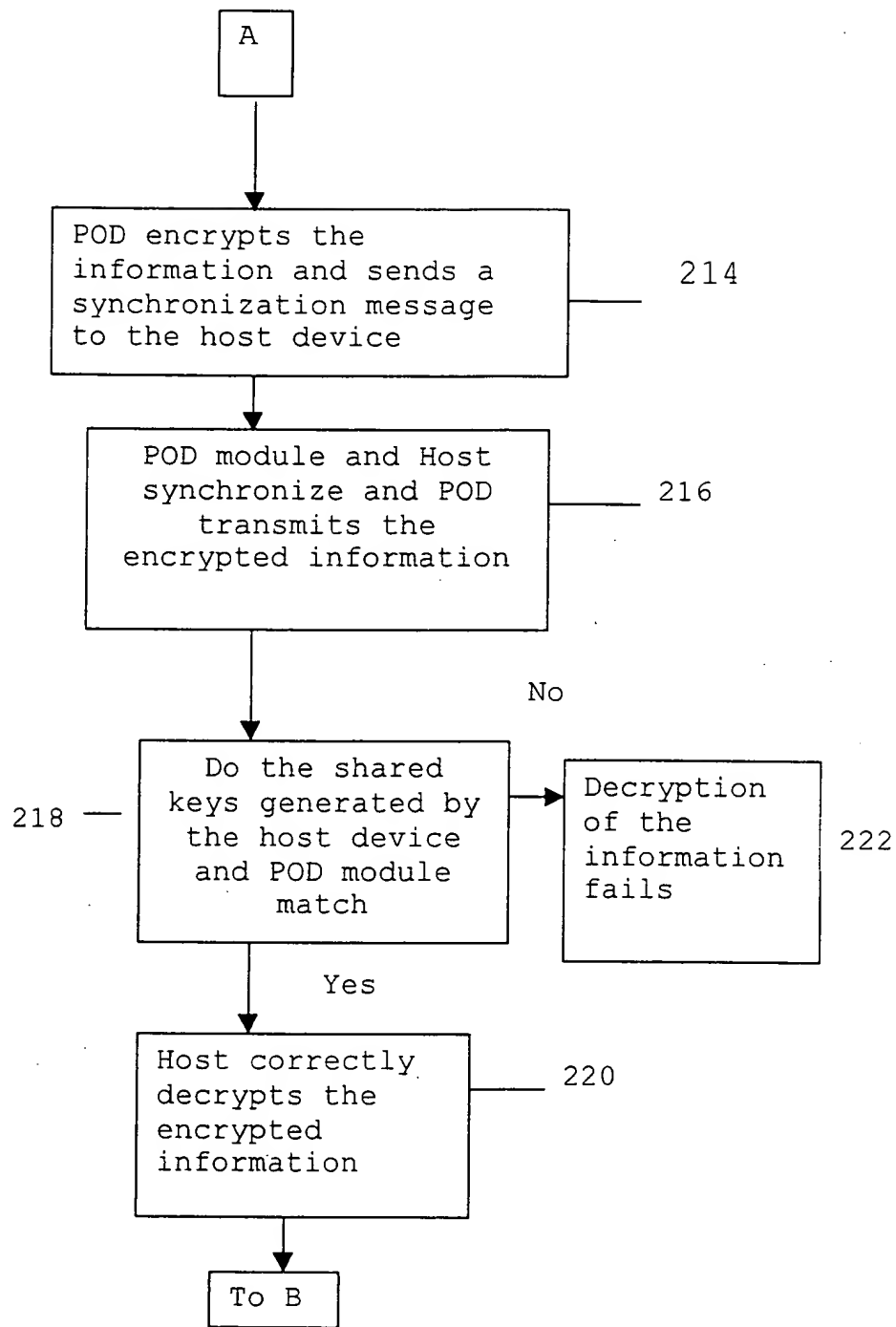


FIG. 2b